

Abstract

A fuel injector (18) for injecting fuel into a combustion chamber of an internal combustion engine, having a pressure booster (3) whose booster piston (4) separates a working chamber (5), which is continuously acted on with fuel by means of a pressure source (1, 2), from a differential pressure chamber (6) that can be pressure-relieved; a pressure change in the differential pressure chamber (6) occurs via an actuation of a servo-valve (22) whose control chamber (36) can be pressure-relieved by means of an on/off valve (32) that also opens or closes a hydraulic connection (21, 38, 30) of the differential pressure chamber (6) to a first return (30) on the low-pressure side, characterized in that in the deactivated state of the pressure booster (3), a first sealing seat (24) seals a return (30) on the low-pressure side off from a high-pressure region of the servo-valve (22), which region is comprised of the control chamber (36), a first hydraulic chamber (37), and a second hydraulic chamber (38).

(Fig. 1)